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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/985,743	11/06/2001	Ryosuke Usui	57810-025	4232
7	7590 04/10/2003			
McDERMOTT, WILL & EMERY			EXAMINER	
600 13th Street, N.W. Washington, DC 20005-3096			LEE, EUGENE	IGENE
			ART UNIT	PAPER NUMBER
			2815	
			DATE MAILED: 04/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No	Applicant(s)			
	09/985,743	USUI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eugene Lee	2815			
The MAILING DATE of this communication Period for Reply	appears on the cover she	et with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1 704(b) Status	DN. R 1.136(a) In no event, however in a reply within the statutory minimum errod will apply and will expire SIX (6 tatute cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely MONTHS from the mailing date of this communication me ABANDONED -35 U.S.C. § 132			
1) Responsive to communication(s) filed on .	24 March 2003				
2a) This action is FINAL 2b)	This action is non-final.				
3) Since this application is in condition for all closed in accordance with the practice und Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the applica	ation.				
4a) Of the above claim(s) 8-17 is/are withdr	rawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction an	nd/or election requirement				
Application Papers					
9)⊠ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a)					
11) The proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner			
If approved, corrected drawings are required in reply to this Office action.					
12) ☐ The oath or declaration is objected to by the	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	eign priority under 35 U S	C § 119(a)-(d) or (f)			
a)⊠ All b) Some * c) None of:					
1. Certified copies of the priority docum	ents have been received.				
2. Certified copies of the priority docum	ents have been received	in Application No			
3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a	Bureau (PCT Rule 17.2(a	a)).			
14) Acknowledgment is made of a claim for dome					
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dom	provisional application ha	as been received.			
Attachment(s)		- 5			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper Not	5) Notic	riew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group I (claims 1-7) in Paper No. 6 is acknowledged.
- 2. Claims 8-17 are withdrawn from further consideration pursuant to 27 CTR 1.142(b) a being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 6.

Specification

3. The disclosure is objected to because of the following informalities: on page 14, lines 22-24, it appears that the applicant intended to state that "the trench width of an upper end is larger than the trench width of a bottom surface" as opposed to "the trench width of an upper end is smaller than the trench width of a bottom surface".

However, appropriate clarification and correction are required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes or ans subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1 thru 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Akram 6.365,952. Akram discloses (see, for example, FIG. 16) an integrated circuit (semiconductor device) comprising a base layer (semiconductor substrate) 64, and an element isolation trench 1602. The width of the element isolation trench at the upper end is larger than the trench width at the bottom surface. The side surface is curved so it would be longer than any straight line between the upper end and the bottom surface of the element isolation trench. Regarding claims 4 and 5, the section close to the upper end of the element isolation trench is perpendicular to the main surface of the semiconductor substrate. The same can be said of the section close to the bottom surface. Regarding claim 6, see the section (first side surface) adjoining the upper surface of the element isolation trench and the section (second side surface) adjoining the bottom surface of the element isolation trench wherein each section is adjoined by a parallel section.

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 703-305-5695. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Eddie C. Lee can be reached on 703-308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

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Eugene Lee April 3, 2003

> EDDIE LEE SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2800